

US 5,414,542 .

- 4) Cell A
- (5) Substrates 12a, 12b:
- (6) 1.1 mm-thick glass plates
- (7) Transparent electrodes 13a, 13b:
- (8) 1150 .ANG.-thick film of ITO (refractive index=1.92)
- (9) Dielectric films 14a, 14b:
- (10) 450 .ANG.-thick film of SiO₂ (refractive index=1.47)
- (11) Alignment films 15a, 15b:
- (12) 600 .ANG.-thick film of polyimide (refractive index=1.67)
- (13) Ferroelectric liquid crystal 16:
(14) averagely 1.5 micron-thick layer of CS-1014 (available from Chisso K.K.
n_{sub..perp.} =1.55, n_{sub..parallel.} =1.70; maximum tilt angle=20 degrees,
tilt angle in the cell under no electric field=8 degrees, pre-tilt angle in SmA
phase.approx.0 degree.
- (15) Polarizers 11a, 11b:
- (16) disposed in right angle cross nicols so as to provide the darkest state
under no electric field.
- (17) The changes i

Patent Assignment Abstract of Title**Total Assignments: 1****Application #:** 09617120**Filing Dt:** 07/14/2000**Patent #:** NONE**Issue Dt:****PCT #:** NONE**Publication #:** NONE**Pub Dt:****Inventor:** Yoko Katsuya**Title:** Liquid crystal display device having high light utilization efficiency**Assignment: 1****Reel/Frame:** 010951/0372 **Received:** 08/01/2000 **Recorded:** 07/14/2000 **Mailed:** 09/15/2000 **Pages:** 2**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).**Assignor:** KATSUYA, YOKO**Exec Dt:** 07/03/2000**Assignee:** SHARP KABUSHIKI KAISHA

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